Engineering and Mining Journal

1950

Index to Volume 151

JANUARY TO DECEMBER

McGRAW-HILL PUBLISHING COMPANY, INC.
330 W. 42nd STREET, NEW YORK 18, N. Y.

Engineering and Mining Journal

Index to Volume 151

JANUARY TO DECEMBER

1950

Editorials

Breathing spell needed on tariff reductions ....May 71
Have you done your part? ....Apr. 71
Help the technical graduate ....Apr 72
How much defense metal? ....Nov. 71
Is government finance for defense socialistic ....Dec. 71
Last chance for tax improvement. June 55
Make voluntary allocation work ....Oct. 71
Markets are the keys ....Apr. 71
Mining has an interest in ECA ....Mar. 55
Mining must expand ....Feb. 71
On identical delivered prices—travel at your own risk ....Aug. 71
Only adequate prices can hold manpower ....Nov. 71
Point IV—a fumbled inspiration ....July 55
Proposed method of computing depletion allowances ....Oct. 71
"Social security" is a myth ....June 55
The tax program—a basis for unity ....May 71
A way of life died in Korea ....Aug. 71
What price subsidies for mining? ....Jan. 56

A

A B Dannemora Gruvor ....Apr. n154
ALA ....Feb. n152
Aberfoyle Tin ....Mar. n158; Aug. n168; Oct. n145; Nov. n152
Ace High ....May n112; June n113
Acoje ....June n138

Adirondacks:
Source of iron ore. D. B. Gillies ....June *84
Admiral ....Dec. n145

Africa:
How heavy-media separation recovers African diamonds. I. F. Cairns ....Sept. *86
Pressure and rockburst as it occurs in the gold mines of South Africa. M. L. Johnston ....Sept. *91
African Metals ....Nov. n149
Afterthought Mountain Copper ....Nov. n121
Airborne radioactivity surveying speeds uranium prospecting. F. W. Stead ....Sept. *74
Ajax Consolidated ....June n139
Akaitcho Yellowknife ....Aug. n156

Alaska:
Gold mined in 1949 ....Apr. 129
Gold production in 1949 ....Sept. 113
Alaska Iron ....Mar. n113
Alaska-Juneau Gold ....Apr. n136
Alaska Miners' Assn. ....Apr. n130; May n111
Alcoa ....Jan. n114; Aug. n122; Nov. n132

Alexite Engineering:
Perlite mining and processing. Willey & Taylor ....June *80
Alhambra Gold ....June n115
Alluvial Gold ....July n125
Alma Syndicate ....Nov. n128
Aloz ....Dec. n141
Alpha Stores ....Feb. n152
Alpine ....June n131

Aluminum:
Aluminum industry seeks higher tariff ....Mar. 91
Production in 1949. R. J. Lund ....Feb. 90
Western European production and consumption of aluminum. R. L. Wilcox ....May *88
Aluminum Co. ....June n113; July n93
Aluminum Corp. of America ....Mar. n113; ....Apr. n146; Dec. n142
Aluminum Co. of Canada ....Feb. n169

Amalgamation:
Strong dosage is remedy in gold recovery problem. Keith Kunze ....Jan. *71
Ambassador ....Jan. n114
American Boy ....Dec. n149
American Cyanamid ....Dec. n142
Three new steps in treating Florida phosphate rock. Arthur Crago ....Nov. *78
American Institute of Mining & Metallurgical Engineers:
Report of meeting ....Mar. *110
American Mining Congress:
How to get the most out of the Mining Congress equipment show ....Aug. *127
List of exhibitors ....Aug. *129
Program for 1950 convention ....Aug. 114
Western Div. meets at Salt Lake City ....Oct. 110
American Nepheline ....Sept. n132
American Smelting & Refining Feb. n163; ....Apr. n134, 145; June n122, 137; July n109; Aug. n118; Nov. n136; Dec. n132
Hayden furnace reports on a long campaign. E. J. Downey ....Sept. *82
Indoctrination program pays off. Wolters & Lutjen ....Jan. *58
American Zinc ....Apr. n144

American Zinc Institute:
Meeting ....May 112
American Zinc, Lead and Smelting ....Mar. n126; June n116; July n111; Nov. n141; Dec. n144
American Vermiculite ....Jan. n116
Anaconda Copper ....Jan. n114; May n119; June n119; July n105; Sept. n113, 124; Oct. n118; Nov. n134; Dec. n139
Anchor-Erie ....Dec. n130
Anchor Mining & Milling ....Sept. n125
Anderson ....Sept. n130
Andes Copper ....Aug. n166; ....Oct. n140; Nov. n147; Dec. n152
Anglo-American Corp. ....Feb. n173; Mar. n141
Anglo Westralian Mining Pty. ....Apr. n158

Antimony:
Production and development of antimony. S. A. Gustavson ....Feb. 93
A-1 Consolidated ....Feb. n174; June n139
Arahura Gold Dredging ....Feb. n177
Argus Hill Chewton Gold ....Jan. n128
Arrington ....Oct. n114

Arsenic:
Production of arsenic in 1949. J. W. Clark ....Feb. 94
Artillery Peak ....Oct. n109

Asbestos:
New uses for low-priced fibers vital to Canadian asbestos. W. A. Rukeyser (charts and tables) ....Mar. *76
Quebec asbestos industry strives to meet increasing demand. W. A. Rukeyser ....May *94
Ascot ....Nov. n144
Ascot Metals ....July n118; Aug. n155
Aspen ....Apr. n135

Assaying:
Better way to assay cyanide mill solutions. A. K. Schellinger ....Jan. 74
Tin determination made easy and accurate. J. V. Davila ....July 81
Associated Metals ....Mar. n114
Atkins-Walker ....Nov. n131
Atkinson Dredging ....July n117
Atok-Big Wedge ....July n121; Aug. n174; Oct. n148
Auburn ....Nov. n131
Aunor Gold ....Feb. n166; May n124
Austin-Jumbo ....May n128

Australia:
Profit outlook ....Oct. 141
Australian Development ....Jan. n128, Aug. n170

B

Bagdad:
Open pit yields bigger tonnage ....Jan. *72
Baker Dredging ....Mar. n124; May n130
Ballarat South Goldfields ....June n139
Banco Minero ....Nov. n147
Banco Minero de Bolivia ....July n119
Banner ....Mar. n123

Barite:
Batch-test centrifuge. E. L. H. Sackett ....Apr. *79
Production and consumption in 1949. W. B. Hester ....Feb. 101

Barium:
New property in Nevada ....Sept. n126
Vacuum metallurgy. A. W. Schlechten ....July 72
Barnat ....Feb. n166; July n114; Oct. n133
Basal Reef ....Dec. n154
Base Metals ....May n135; July n118; Dec. n150
Basic Refractories ....Mar. n122

Bauxite:
First Caribbean bauxite development. O. C. Schmedeman ....Nov. *98
Beacon ....June n129
Bellevue Hudson ....Sept. n114
Bell-Lucan Gold ....Jan. n123
Benbow-Mouat ....July n108
Bendigo Exploration & Gold Development ....Oct. n144
Benguet-Balatoc ....Jan. n131; May n142; July n121
Benguet Consolidated ....Mar. n140; Apr. n157; Sept. n140; Oct. n147
Berens River ....June n128

Beryl:
Colorado pegmatite deposit yields beryl and mica. C. A. Wemlinger ....Nov. *92

Beryllium:
Developments in 1949. J. W. Clark ....Feb. 95

e editorial; n news; c comment and criticism; * illustrated

Beryllium Mining .....June n115
Colorado pegmatite deposit yields beryl and mica. C. A. Wemlinger....Nov. *92
Best .....May n111; July n91; Sept. n 113
Bethlehem Cornwall
Concreting pays for slushing and haulage drifts. Joseph Bernhardt...Dec. *82
Bethlehem Steel
.....Feb. n158; Mar. n124; June n141
Bevcourt Gold .....Sept. n133
Big Four Silver .....
.....Mar. n130; June n183; July n117
Big Gold .....July n118
Big Pine .....Mar. n113
Big Rock Stone & Material.....Dec. n130
Bikita .....June n141
Bismarck .....Nov. n130
Bismuth:
Output of bismuth in 1949. J. W. Clark
.....Feb. 94
Blackhawk .....Dec. n139
Black Star Development .....
.....June n122; Sept. n126
Blasting:
Advances in blasting. A. H. Hubbell
.....Feb. 112
Cycle planning for rock headings means more footage per day. R. W. Jenkins .....May *72
Electric blasting box.....Aug. *103
Fast delays at Canadian Malartic. May 102
Fast delays improve blasting at Balmat .....Apr. *97
Idaho Maryland's powder plan cuts explosives cost by 30%. Angove & Latmer .....June 60
Shaped charge at Miami.....Aug. 101
Short-period delays help in enlarging shaft stations. Sauerwein & Hastings.....May *85
Bluebell .....June n131; July n116
Blue Spec Gold .....Jan. n126
Boliden .....May n148
Bolivia:
Mineral production in 1949.....Apr. 152
Bonanza Lead .....
.....May n133; Sept. n131; Dec. n145
Bonanza Mercury .....Apr. n143
Bonita .....Mar. n114
Book & Blueberry .....Dec. n136
Bor:
What I saw at the Bor copper mine. J. J. Christie .....May *78
Braden Copper .....Feb. n171
Bradley .....Mar. n116
Bralorne .....
Mar. 129; Apr. n149; May n138; June n133
Bremen Metalhandel-und Schmelzwerk .....Sept. n142
Bristol .....June n120
Britannia Mining & Smelting .....
.....Jan. n122; Apr. n151
British South Africa.....Nov. n149
Broken Hill .....Oct. n145
Broken Hill Associated Smelters.....
.....Aug. n170; Oct. n143
Broken Hill Pty. .....Mar. n137; Aug. n170
Broken Hill South .....
.....May n145; Oct. n146; Dec. n157
Broulan Porcupine .....Nov. n145
Brush Creek .....June n113; Nov. n121
Buck .....Mar. n129
Buffalo .....May n130; Sept. n128
Buffalo .....May n130; Sept. n128; Dec. n142
Buffalo Dredging .....July n108
Buffalo Valley .....Dec. n140
Bullion Monarch .....Feb. n162
Bulolo .....June n140; July n121
Bulolo Gold Dredging .....
.....Jan. n131; Feb n177;
May n145; July n125; Oct. n147; Dec. n157
Bunker Hill .....Jan. n110; Nov. n121
Bunker Hill & Sullivan.....Feb. n154;
May n114; June n117; Sept. n115; Nov. n129
Flash grind. Frank McKinley....Jan. *64
Intercommunication unit makes shaft sinking faster and safer .....Feb. *148
Burma Corp. .....Mar. n140
Burma-Malay Tin .....Mar. n140
Butler Bros. .....Feb. n155

C

C & L Construction.....Oct. n114
CM & S .....July n118
Cadmium:
Production of cadmium in 1949. R. H. Mote .....Feb. 94
Cadmus .....Feb. n152; Apr. n132
Caja De Credito Minero.....Feb. n171
Calaveras Central Gold:
Pre-assembled timber set speed shaft rehabilitation. J. B. Huttl.....Apr. *100
Steel clamp holds pipe in manway. June *93
Calcium:
Vacuum metallurgy. A. W. Schlechten
.....July 71
Caledonia Adit .....Dec. n137
Calera:
Howe Sound's cobalt mine rapidly nearing production. J. B. Huttl.Oct. *88
Calhoun & Howell .....May n130
California .....June n116
Callahan Consolidated ..Feb. n154; Mar. n116
Callahan Zinc-Lead .....
Jan. n109; Apr. n129; May n111; June n113, 115; July n91; Oct. n112; Dec. 132
Car clamp prevents mine cars from overturning .....Oct. *101
Modified timber truck holds to track .....Oct. *101
Rubber-tired wheels result in smoother skip travel .....Dec. *112
Callejas Bros. .....May n141
Calumet & Hecla .....
.....Feb. n158, 165; May n118, 129
Calumet & Hecla Consolidated Copper.. .....Mar. n121;
Apr. n141; June n120; Oct. n116; Dec. n137
Designing and building new lead-zinc mill. Korts & Walvoord.....July *78
Camas .....Sept. n122
Camp Bird .....Sept. n114
Cambria Jackson:
Old hoisting rope forms scraper slide .....Feb. *149
Campbell Red Lake.....Sept. n132
Campo Milling .....May n112
Canada:
Aluminum therapy for silicosis shows favorable results .....Aug. 100
Asbestos industry strives to meet increasing demand. W. A. Rukeyser .....May *94
British Columbia's mineral production in 1948 .....Mar. 128
Cobalt camp comes back. G. P. Lutjen .....Nov. *86
Increased output marks silver camp revival .....Aug. 97
Metal production 1948, 1949.....Oct. 139
New uses for low-priced fibers vital to Canadian asbestos. W. A. Rukeyser (charts and tables).....Mar. *76
Quemont—designed today for tomorrow's production. R. J. Dionne..Oct *74
Canadian Exploration .....
Jan. n122; Mar. n129; July n116; Sept. n136
Canadian Johns-Manville .....Jan. n120
Canadian Malartic Gold .....May n136
Candelaria .....Oct. n119; Dec. n125
Canus Petroleum .....Mar. n132
Cap-lamp holder, detachable.....Dec. *110
Captain's Flat .....Mar. n139
Carbonifera Unida de Palau .....June n136
Cariboo Gold Quartz .....
.....June n132; July n118; Nov. n140
Caribou .....Nov. n128
Carnotite:
Ore discovery on Navajo Reservation .....Nov. n121
Cassiar Yukon Gold .....July n117
Castle Dome Copper ..Jan. n107; May n111
Central Cheam Copper Mines.....July n117
Central Deborah .....June n139
Central Eureka .....
Jan. n107; June n115; Oct. n109; Nov. n128
Better way to wire wedge bundles.Apr. *109
Central Manitoba .....Jan. n124
Central Nell Gwynne.....Dec. n156
Central Norseman Gold .....
.....Jan. n127; Feb. n174; Mar. n137;
May n144; June n138; July n122; Dec. n155
Central Patricia Gold:
Quick way to replace filter strings. Apr. *107
Central Victorian Dredging Co.....Jan. n128
Cerro Bolivar:
Iron ore in Venezuela .....Apr. *128
Cerro de Mercado.....June n137
Cerro de Pasco .....Sept. n139
Chain O'Mines .....Jan. n109; Feb. n153
Champion .....Apr.
n134; July n92; Sept. n114; Oct. n112, 128
Champion Reef Gold.....Jan. n133
Charleson .....Jan. n112; Mar. n118
Charleston Lead .....Dec. n129
Chilcoagamau .....July n114
Chicago .....Feb. n151
Chicagof .....Mar. n113
Chile Copper .....July n119
Chile Exploration .....July n119
Chilean Nitrate and Iodine Corp. .....June n134
Chowchilla Dredging .....Feb. n153
Chromite:
Production in 1949. N. B. Melcher.Feb. 98
Cia Exploradora de Isthmo.....Mar. n134
Cia Explotadora Minera.....Oct. n141
Cia Manufacturera Electrica de Roma .....Mar. n136
Cia Metalurgica del Centro .....Nov. n146
Cia. Min. Agua Fria:
Danil has diesel locomotive.....July 82
Cia Minera Atacocha.....June n137
Cia Minera Aysen .....Apr. n153; June n134
Cia Minera Cerro Negro.Aug. n167, Nov. n146
Cia Minera Delirio de Punitaqui .....
.....June n134; July n119; Aug. n167
Cia Minera Disputada De Los Condes .....Feb. n171
Cia Minera du M'Zaita .....July n119
Cia Minera Los Amigos .....Apr. n153
Cia Minera Mercedilas..Apr. n153; Nov. n146
Cia Minera Punitaqui .....Oct. n140
Cia Minera Real Del Monte.....Feb. n170
Cia Minera Tocopilla.....Nov. n146
Cia Vale do Rio Doce.....June n134, Sept. n137
Churn drill rig serves as construction crane .....Apr. *108
Ciani & Cia .....Nov. n147
Clark-Mackley .....Apr. n134
Classification
Calculate classifier data accurately by new method. F. C. Bend .....Dec. *90
Clayton Silver .....
Feb. n154; Apr. n136; July n93, Nov. n131
Cleveland-Cliffs Iron .....Jan. n112,
Feb. n156; Mar. n120; Apr. n139,
May n116, Sept. n122; Oct. n116, Dec. n137
Climax Molybdenum .....
Jan. n110; Mar. n115; June n115; July n92
Planning and research cut costs. June *59
Climax Uranium .....Oct. n112
Cobalt:
Canadian cobalt camp comes back. G. P. Lutjen .....Nov. *86
Consumption and output of cobalt in 1949. H. W. Davis.....Feb. 93
Howe Sound's cobalt mine rapidly nearing production. J. B. Huttl.Oct. *88
Cobalt Chemical & Refining:
Cobalt camp comes back. G. P. Lutjen .....Nov. *86
Cobalt Lode Silver.....Sept. n132
Cobalt camp comes back. G. P. Lutjen .....Nov. *86
Cochenour Willans Gold.....Dec. n147
Cock's Eldorado Dredge .....June n139
Coeur d'Alene .....
Feb. n154; Aug. n118; Sept. n114; Oct. n112
Coeur d'Alene Silver Giant.....Oct. n114
Collinsville .....Oct. n109
Colonial Development .....Oct. n149
Colorado Fuel & Iron Corp.
Handling materials by remote-controlled locomotives. W. J. Boyer.Dec. *92
Columbia Gypsum Products .....
.....June n126, 133; Sept. n131
Columbia Iron .....Mar. n126
Columbia Lead & Zinc.....Oct. n131
Columbia Mining & Leasing.....July n111
Columbia Tungsten .....Oct. n131
Columbus .....Feb. n154
Combined Metals Reduction Co.:
New hoist protective device prevents overwind, overspeed. C. M. Marquardt .....Sept. *71
Shaft surveying method features accuracy. Durk & McIntyre.....Apr. *96
Commonwealth Lead... May n120; Dec. n138
Compressed Air:
Alarm system protects air compressors .....June *93
Mobile compressor .....Oct. 100
Waste heat from compressors can be used to advantage.....Sept. *102
Conakry .....Oct. n150
Concentration:
Accurate reagent feeder for small quantities. A. O. Ashman.....Apr. *98
Blackburn heavy-density plant opens new brown iron ore reserves. A. M. Shook .....Sept. *78
Heavy-density separation cuts brown ore treatment cost. S. A. Britton.July *68
How Getchell mine and mill prepare for greater output. J. B. Huttl.July *60
How heavy-media separation recovers African diamonds. I. F. Cairns.Sept. *86
The Humphreys Spiral. Thompson & Brown .....Aug. *87
Congress Gold .....
.....Jan. n122; June n132; Aug. n158
Connors .....Nov. n128
Conqueror .....Dec. n131
Consolidated .....
Jan. n132; Mar. n140; Sept. n140; Oct. n148
Consolidated Beattie .....May n135
Nozzle for washing down working faces .....Aug. *103
Consolidated Caribou Silver.....
.....Mar. n115; May n112; Oct. n112
Consolidated Coppermines .....
.....Sept. n126; Nov. n135
Consolidated Duquesne .....Apr. n147
Consolidated Goldacres .....Feb. n160
Consolidated Goldfields of South Africa .....Feb. n178
Consolidated Main Reef.....Feb. n173
Consolidated Mines .....June n138
Consolidated Mining & Smelting .Jan. n 123; Feb. n169; Mar. n128; Apr. n150; May n137; June n132; July n116-116; Aug. n162; Sept. 135; Oct. n138; Dec. n149
Consolidated Murchison Goldfields & Development .....Apr. n156
Consolidated Zinc .....July n123, Aug. n172
Continental Chemical .....Dec. n141
Continental Machines .....July n93
Conwest Exploration & Mining.....Dec. n149
Cooks Eldorado Gold Dredging...Feb. n174
Cooper Shapely .....Sept. n113
Copper:
Ergani, mainstay of Turkey's copper mining. S. E. Birgi.....Apr. *92
Hayden furnace reports on a long campaign. F. J. Downey.....Sept. *82
Long-term demand will force metal prices up. W. P. Shea. (charts & tables) .....Mar. *81
Mechanical converter tuyere punching at the McGill smelter. J. B. Huttl .....Aug. *84
1949 copper statistics and production by countries. H. H. Wanders (tables) .....Feb. *82
Western European production and consumption of copper. R. L. Wilcox .....May 88
Yugoslavia—what I saw at the Bor copper mine. J. J. Christie.....May *78
Copper Canyon .....July n106
Electric blasting box .....Aug. *103
Handy bit remover .....Aug. 103
Copper Hill .....Jan. n107
Copper Range .....
Feb. n159; Mar. n122; May n118; Nov. n133
Cordero .....Mar. n122; May n112

e editorial; n news; c comment and criticism; * illustrated

Cork Province ....Nov. n141
Coronado ....Oct. n109
Coronado Copper & Zinc ....July n91; Aug. n113; Oct. n109
Corporacion de Fomento ....Apr. n153
Corporacion Peruana de Manganeso..Dec. n152
Corporacion Peruana del Santa....Dec. n152
Costa Rica International Sulphur..Sept. n139
Costa Rica Manganese ....Sept. n138
Cracker Jack ....June n116
Cresson Consolidated Gold ....May n114; Dec. n131
Cripple Creek Mining & Milling....Feb. n152
Cronin ....Nov n141

Crushing and Grinding:

Bunker Hills flash grind. Frank McKinley ....Jan. *64
Selecting rods of the proper size for the rod mill. F. C. Bond ....July 85
Sidney mine uses the flash grind, too ....Jan. *67
Crystal Fluorspar ....Mar. n120; May n116
Crystal Hill ....June n115; Aug. n116
Cuba:
Demonetized silver to be sold. Herbert Bratter ....July 73
Cuprus ....June n127
Cuthbert's Misima Goldmine....June n140
Cuyuna Ore ....May n116

D

Dant & Russell ....May n130
Darwin ....Nov. n121
Day ....Jan. n110, 118; Mar. n116; Apr. n136; June n118; July n93
De Beers Consolidated ....July n125
Deborah Gold ....July n122
Defense:
How to deal with defense agencies..Nov. 72
Defense Production Act of 1950....Oct. 104
Delnite ....Feb. n166; June n130
Dewey ....July n93
Diamonds:
Chemical Metallurgical & Mining Soc. of South Africa discusses concentrating diamonds electrostatically.. ....Dec. n154
How heavy-media separation recovers African diamonds. I. F. Cairns..Sept. *86
Test chamber for diamond drilling experiments. R. S. Young....Sept. *95
Dickey Exploration ....June n113
Dittmar Gold ....Feb. n156
Dudson ....June n124
Dome ....May n134
Dome Exploration ....Jan. n121
Domestic Manganese & Development.... ....Dec. n138
Domingo ....Feb. n152
Dominion Magnesium ....Dec. n147
Donalda ....Oct. n134
Doornfontein Gold ....Jan n134
Dora Bay ....July n91
Doreen ....May n137
Doria Gold ....May n143
Dos Carlos ....July n129
Douglas ....Oct. n114
Dragon Consolidated ....Feb. n162
Dredging see Mining
Drew ....Feb. n156

Drilling, Blast Hole:

Additional capacity for single use bit ....May 102
Alloy steel churn drill bits prove superior in tough ground, International Nickel, Dewey & Armstrong....July *64
Bit remover ....Aug. *103
Carbide bits abroad ....Mar. 88
Carbide bits improved ....May 102
Carbide-tipped jumper drills in Sweden ....Aug. 101
Carbide-tipped steel at Lake Shore ....Nov. 106
Carbide tips at Bishop....June 104
Climax Molybdenum's experience with the Quarrymaster drill....July 87
Core drill has two-speed transmission ....Mar. *102
Cycle planning for rock headings means more footage per day. R. W. Jenkins ....May *72
Drilling still holds the attention of mine operators. A. H. Hubbell..Feb. *108
Factors in the bit picture....Nov. 107
Forged drill steel with attached tungsten-carbide insert....Jan. 82
High-efficiency drilling combination ....Oct. 106
Longer life for carbide-bit studs..Apr. *103
Mountain Copper makes own carbide-tipped steel ....Jan. 82
New carbide bit in four series....Apr. 103
Old diamond-drill rods used for spilling ....Jan. *88
Powdered-metal vs. cast-type bits.Oct. 106
Proper care for hollow steel will cut your drilling costs. McCormick & Darby ....June *74
Quantitative survey of blast-hole diamond drilling (table) ....Sept. 96
Remedy for riffing when using insert bits ....July 83
Renewable stud ....Mar. 86
Rotary carbide-tipped drills....Sept. 97
Selecting the best size of hole for churn drilling. N. Nixon (table).Apr. *96
Short-period delays help in enlarging shaft stations. Sauerwein & Hastings ....May *85
A steel bit's performance....Mar. 86
Tipped steel vs. tipped bits....May 102
Umkwaka chrome mines drilling with rotary carbide-tipped stems....July 83
Water-line strainer prevents jackhammer blockage ....Oct. *103
What is best in drilling blast holes?—it appears to depend upon conditions. C. H. Hopper ....Apr. *86
What price scrap carbide?....Nov. 107

Drilling, Exploration:

Core-splitter easy to make....Aug. *103
Diamond drilling for uranium on the Colorado Plateau ....Oct. *86
Drill core rack is easy to build...July *85
Drilling still holds the attention. A. H. Hubbell ....Feb. 115
Selecting the best size of hole for churn drilling. N. Nixon (table)....Apr. *96
Duval Texas Sulphur ....Feb. n160; May n130; Dec n141

E

Eagle Mountain ....Jan. n119; May n133
Eagle-Picher ....Jan. n107; Apr. n144; June n125
Converting single-phase power into three-phase current for the plant ....Oct. 99
East Lembi ....Jan. n111; Nov. n129
East Malartic ....Jan. n120; June n129; Sept. n134
East Point ....Sept. n113
East Sullivan ....Mar. n133; Apr. n147; May n136; Aug. n154
Eclipse ....July n92
Elbern ....Feb. n155
Eldona ....Feb. n166
El Dorado Gold ....Jan. n115; June n122
El Torno ....June n134

Electrical Control and Equipment:

Better communication for open pits ....Apr. 103
Handling materials by remote-controlled locomotives. W. J. Boyer. Dec. *92
How to charge storage batteries with modified constant voltage. K. A. Vaughan ....Oct. *102
How to locate ground faults easily ....Sept. *102
Kennecott Copper mine at Bingham Canyon served by mobile radio system ....Aug. *96
One-handed electric hoist control.June *82
Quick way to mount insulators....June *94
Radio for Florida phosphate mines ....June 104
Radio for underground asbestos mine ....Sept. 87
Radio helps open-pit work....June 104
Smooth operation of the electrically-driven casting wheel. R. B. Moore ....Mar. *66
Testing panel for faulty insulation ....Nov. *111
Trap for motors ....Apr. *103
Electrolytic Zinc ....Jan. n128, Feb. n176, Mar. n138; Oct. n145
Elkhorn ....May n121; Sept. n124
El Paso:
Gold strike at Cripple Creek....Aug. *112
El Portal ....Oct. n112
Embarrass ....July n93
Emerald Glacier ....Dec. n150
Emperor ....Feb. n177
Emperor Gold ....Oct. n148
Empire Mining & Milling ....Jan. n116
Empire-Star ....May n111, Dec. n130
Preventive maintenance ....Feb. *149
Safety cables for skips....June *93
Empire Zinc:
Modernizing New Jersey Zinc's Eagle Mill. J. G. Craig. pt 1, Oct. *80; pt. 2, ...Nov. *101
Engineering & Mining Journal:
Success or mediocrity? A few minutes a month can decide....Dec. 106
Reprints available ....July 86

Engineering Office:

How plastic relief model aids mine development planning ....Mar. *64
How tonnage and grade relations help predict ore reserves. S. G. Lasky ....Apr. *81
Jacob's staff speeds hand level work ....Mar. *109
New survey method—the trig-traverse method. J. G. Kelley. (tables). Dec. n161
Random transit setup method saves time, eliminates taping. Daniel Shewmon ....Aug. *98
Shaft surveying method features accuracy. Durk & McIntyre ....Apr. *90
Erganl:
Turkey's copper mining. S. E. Birgi ....Apr. *92
Estella ....Dec. n149
Eureka ....Sept. n126
Eureka Creek ....Dec. n129
Exelda ....Feb. n167
Exploration: see Geology, Drilling and Prospecting
Exports—Congress controls metal exports for conservation ....Nov. 109

F

Fairbanks Exploration ....Feb. n151
Fairview Consolidated ....June n141
Fairview Placer ....Jan. n107; June n114; Oct. n112
Falconbridge Nickel ....June n130
Federal Mining & Smelting...May n114, 130; June n124; Oct. n114; Nov. n136, 139
Feldspar:
Developments in 1949 ....Feb. 105
Ferguson ....July n115
Ferro-alloy metals. C. W. Merrill..Feb. 97
Filtration:
Filter springs replacement ....Apr. *107
Flinders Ranges Silver Lead ....Mar. n137
Fluxore ....May n111
Four Corners Uranium ....July n92
Freddies North Lease Area.... ....Apr. n156; July n125
Freddies South Lease Area....Apr. n156
Free Enterprise ....Nov. n130
Free State Geduld ....Apr. n155
Freeport Sulphur:
15 ways a sulphur producer cut costs and improved handling. A. A. Gustafson ....Jan. *68
French Gulch Placers....Sept. n125
Front Range ....Mar. n114
Furukawa ....Jan. n133

G

Gabbs Exploration ....Oct. n119
Galena Mining & Milling....Feb. n167
Gaspe Copper ....May n136; July n113

Geology:

Adirondack mining properties....Nov. *75
Airborne radioactivity surveying speeds uranium prospecting. F. W. Stead ....Sept. *74
The airplane dominates in modern exploration methods. Lundberg & Wilson ....Feb. *106
Erganl, mainstay of Turkey's copper mining. S. E. Birgi ....Apr. *92
How tonnage and grade relations help predict ore reserves. S. G. Lasky ....Apr. *81
Geomines ....Sept. n142
Getchell ....Apr. n142, June n122; Oct. n118
How Getchell mine and mill prepare for greater output. J. B. Hutti.July *60
Giant Mascot ....July n118; Aug. n159
Giant Yellowknife Gold ....Jan n121; Mar. n133; May n138; July n118; Aug. n156; Sept. n136, Oct. n136, Dec. n148
Gibbonsville ....Apr. n138
Girdo Creek Vermiculite Products....Jan. n116
Glynn's Lydenburg ....Feb. n173
God's Lake Gold ....June n128; Sept. n135
Golconda Lead ....Apr. n136; Sept. n115; Nov. n129

Gold:

Automatic giant cuts placer mining costs ....Jan. *98
Dry-land dredge uses draglines, shovel, belts, washing plant. J. B. Hutti ....June *68
Gold developments in 1949, production, reserves, prices. M. A. Kriz (tables) ....Feb. *76
Gold strike at Cripple Creek ....Aug. *112
How Getchell mine and mill prepare for greater output. J. B. Hutti.July *60
Pressure and rockburst as it occurs in the gold mines of South Africa. M. L. Johnston ....Sept. *91
Strong dosage is remedy in gold recovery problem. Keith Kunze Jan. *71
Two ex-gold mines in New Zealand to be reopened....Jan. 128
World Fund rejects gold price increase. Herbert Bratter ....July 76
Gold Bluff ....July n92
Gold Bond ....Nov. n129
Gold Crown ....Apr. n131; Oct. n109
Gold Empire ....Apr. n124
Gold Exploration & Finance ....Feb. n174
Gold Mines of Kalgoorlie June n138; Dec. n155
Gold Mines of New Guinea ....Mar. n139, Oct. n148
Gold Mountain Mining & Milling ..Apr. n142
Gold Ophir Placers....Jan. n115
Gold Queen ....Jan. n115
Gold Syndicate ....Feb. n164
Goldacres ....Sept. n126
Golden Contact ....Apr. n150; May n138, July n117
Golden Cycle Jan. n108; July n 92, Oct. n112
New Carlton mill nears completion ....Sept. *112
Golden Horse Shoe Milling ....Nov. n134
Golden Manitou ....Feb. n156; Mar. n133, July n114, Dec. n146
Handy core-splitter is easy to make ....Aug. *102
Golden Mile ....Jan 126; Apr. n157
Golden Miller ....Jan. n121
Golden Plateau ....Jan. n131
Golden Ray ....Mar. n113
Golden State ....May n111; Nov. n121
Goldfield Consolidated. June n126; Dec. n144
Granby Consolidated Mining, Smelter & Power ....Jan. n132; Mar. n131; June n131-133; Aug. n157
Grandview Apr. n138; July n111; Aug. n150

e editorial; n news; c comment and criticism; * illustrated

Grant ....Mar. n119; Dec. n136
Granville ....July n118
Gray Rock ....Nov. n140
Great Boulder Pty. Gold ....May n143

Great Britain:

Ancient Cornwall is pinched now but sees good future in tin output..Oct. *108
Great Lakes Carbon ....Jan. n116; Apr. n143; June n123
Great Western Consolidated ....Mar. n137; July n122

Great Western Sugar:

Two diesel locomotives ....July 82
Grey Eagle ....Oct. n118; Dec. n139
Guacimal ....Sept. n139
Gulchon ...June n132; Aug. n161; Sept. n139
Gunnar Gold ....July n115
Gypsum Products ....Mar. n128

H

H & H ....Oct. n117
Bucketline dredge recovers placer scheelite. W. A. Noon..........May *82
Hallnor ....May n135
Hamil Silver Lead .....July n117; Aug. n162
Hammer & Houser ....Mar. n123

Hanna Coal Co.:

Angle bar developed in mine prevents derailments ....Sept. *104
Hanna Development ....Dec. n141
Hanna, M. A. Co.........Jan. n112; Feb. n155, 157; Mar. n118; Apr. n140; May n116; June n118; July n93, 105; Aug. n120; Sept. n124; Oct. n114; Dec. n135, 137
Cyclone separator may be solution for fine iron ore problem. Erickson & Herkenhoff ....June *71
Hard Rock Gold ....Jan. n120
Harding ....Dec. n141

Haulage and Transport:

Angle bar developed in mine prevents derailments ....Sept. *104
Battery tram car contains hydraulic lift ....July *84
British diesel mine locomotive....Aug. 101
British interest in diesel mine locomotives ....July 82
Build your belt conveyors to make them last longer. S. M. Mercier.Jan. *78
Car clamp prevents mine cars from overturning ....Oct. *101
Combination jumbo and slusher speeds incline shaft project. Larssen & Wells-Strand. ....Dec. *87
Concreting pays for slushing and haulage drifts. Joseph Bernhardt. ..Dec. *82
Diesel-driven mine locomotive in limestone mine of Great Western Sugar Co. ....Sept. *97
Diesel locomotive at Jefferson City, Tenn. ....July 82
Diesel locomotives haul mine cars per trip ....Aug. 101
Diesel locomotives in Great Western Sugar's mine ....July 82
Diesel power for haulage.........May 102
Diesel power underground looking up ....July 82
Distilled water container ....Jan. *86
Haulage costs held down by maintenance says U. S. Bureau of Mines Dec. 86
Honduras mine has diesel locomotive ....July 82
Jumbo climbs in the stopes.......Nov.n*123
Larger mine cars aid mining cycle.Oct. 100
Modified timber truck holds to track ....Oct. *101
Portable trolley pole welded to steel tie ....June *94
Pulley scraper ....Apr. *108
Rock loader ....Nov. 107
Rubber-tired wheels result in smoother skip travel ....Dec. *112
St. Joseph Lead has two diesel trucks underground ....July 82
Shaker conveyor ....Nov. 106
Shuttle car battery and maintenance station ....July *84
Spike driver, pneumatic ....Apr. *107
13 ways a sulphur producer cut costs and improved handling. A. A. Gustafson ....Jan. *68
Tongs for handling track ties.....Mar. *109
Transport combined with jumbo..Nov. *106
Transport underground. A. H. Hubbell ....Feb. 112
Wire rope maintenance pays.....July 67
Haultain ....Oct. n132
Hecla ....Jan. n111
Hedley Mascot ....Feb. n168; May n138; Aug. n159
Hedman ....Mar. n119
Helcolicon ....July n91
Helicopter Explorations ....June n131
Hercules Gold ....June n139; July n92, 122
Hiawatha ....Mar. n120
Highland-Bell .... Apr. n149; May n137; June n132; Nov. n140
Highland Silver ....June n132
Highland Surprise ....Jan. n111; Feb. n154; Mar. n117; May n114; Sept. n115
Hi-Grade ....Jan. n107; June n115
Hill-Annex ....Mar. n119
Hill 50 Gold ....Dec. n155
Hill Florence ....Dec. n140
Hillside ....June n113
Hirst-Chichagoff .... July n91; Sept. n113; Oct. n109; Nov. n121

Hoisting:

"Crash switch" for mine cages....Jan. *88
For accuracy in hoisting ....Oct. 100
Hydraulic material lift for hoisting crushed ore. P. S. Gardner Jr...Sept. *84
Intercommunication unit makes shaft sinking faster and safer........Feb. *148
Modern hoist. A. H. Hubbell.....Feb. 114
New hoist protective device prevents overwind, overspeed. C. M. Marquardt ....Sept. *71
Old hoisting rope forms scraper slide ....Feb. *149
Reel kinks removed from rope....July *85
Safety cables for skips............June *93
Skip redesigned with rubber wheel mountings and ball bearings....July *63
Wire rope maintenance pays......July 67
Holland ....Sept. n122
Hollinger Consolidated Gold ....May n135
Hollinger-Hanna ....Jan. n120
Hopper outlet, steam-heated ....Oct. *102
Horn Silver ....Mar. n125
Hornet ....May n129

Howe Sound

Cobalt mine rapidly nearing production. J. B. Huttl..............Oct. *89
Sturdy idler and tail block reduce scraping costs. .... Jan. n119; Mar. n127; May n132; July n112; Aug. n118; Sept. n129, 131; Dec. *114
Howe Sound Exploration ....Feb. n166; May n139; July n114
Howie ....Oct. n112
Hudson Bay Mining & Smelting .... Mar. n133; May n139; June n127; Oct. n135
Hurlow Mining Milling..May n129; Dec. n140
Hypotheek ....Oct. n114

I

Idaho Maryland ....Apr. n132; Dec. n130
Ladder making machine cuts costs by 50 percent ....May *106
Powder plan cuts explosives cost by 30%. Angove & Latimer.......June 60

Ilmenite:

Black sand is mined from traveling lake, Starke, Fla. ....Jan. *106
Independence ....Dec. n130
Indian ....Oct. n138; Nov. n141
Indian Copper ....Jan. n133
Industria e Comercio de Minerios...Sept. n137
Industria Diamonds ....May n150
Industrial Minerals ....July n108
Inland Mining ....May n138
Inland Steel ....Jan. n111, 114; Feb. n158; Mar. n120; Apr. n139; May n116; July n93; Aug. n120, 122; Nov. n131, 133; Dec. n136
International Minerals & Chemical...... .... Feb. n160; Mar. n123; May n114; June n123; July n108; Aug. n145; Oct. n119
International Nickel ....May n134
Alloy steel churn drill bits prove superior in tough ground. Frood-Stobie mine. Dewey & Armstrong......July *64
International Smelting & Refining..Feb. n163
Inter State Hill Annex ....Dec. n136
Inter-State Iron .... Feb. n156; Mar. n119; May n116; June n119; Aug. n120, 121; Sept. n122; Dec. n135
Ione ....Nov. n130

Iron:

"Adirondack iron ore field still offers many challenges." D. B. Gillies June *84
Adirondack mining properties....Nov. *75
Blackburn heavy-density opens new brown iron ore reserves. A. M. Shook ....Sept. *78
Cerro Bolivar—U. S. Steel's new iron ore bonanza. M. C. Lake.......Aug. *72
Concreting pays for slushing and haulage drifts. Joseph Bernhardt...Dec. *82
Cyclone separator may be solution for fine iron ore solution. Erickson & Herkenhoff ....June *71
Heavy-density separation cuts brown ore treatment cost. S. A. Britten ....July *68
Imports in 1950 ....Nov. 85
Iron ore in Labrador ....Feb. *150
Iron ore moves down the lakes...May *86
Labrador iron ore and the St. Lawrence Seaway. W. H. Durrell..May *92
Ore beneficiation leads advance in milling ....Feb. *116
Plans for blast furnace to process frown iron in Georgia................Dec. n132
Today's iron ore sources and our future supply (table of ten leading steel companies) ....Mar. *70
Iron Mines Co. of Venezuela........May n141
Iron Ore Co. of Canada..Jan. n120; Oct. n134
Island Mountain ..Feb. n169; Apr. n150; May n138; June n132; Oct. n137; Nov. n140
Isle Royale ....Mar. n122; Nov. n133
Italian Sulphur ....May n146

Italy:

Mercury cartel splits in price war.June 142
Itogon ....June n138

J

Jagersfontein ....Feb. n173

Jamaica:

First Caribbean bauxite development. O. C. Schmedeman ....Nov. *98
Jay Gould ....Oct. n128
Jeep Gold ....May n139
Jersey Lead-Zinc ....Apr. n150

Jet piercing:

Jet piercing hand blowpipe can mean faster "drilling" at lower cost. G. P. Butjen ....July *74
Joe Dandy ....July n92
Johns-Manville ....Dec. n130
Jones & Laughlin ....Mar. n121; Sept. n122; Dec. n136
How plastic relief model aids mine development planning ....Mar. *64
Jones & Nylene ....Mar. n115
Julian Milling Co.......Apr. n131; May n112
Junior ....Dec. n134

K

Kaaba ....Nov. n138
Kaiser Aluminum & Chemical.......... ....Mar. n127; Oct. n131
Kanieri Gold Dredging ....Feb. n177

Kaolin:

Developments in 1949..........Feb. 105
Kaslo Silver Lead ....July n117
Katu Tin Dredging ....Mar. n140
Kayrand Mining & Development....Oct. n134
Kearney ....Apr. n145
Kelowna Exploration ...Apr. n149; Oct. n139
Kennecott-Anglo-Transvaal Exploration ....May n150
Kennecott Copper.......Feb. n163; Mar. n123; Apr. n144; May n121; July n107, 109; Sept. n129; Oct. n112; Dec. n139, 143
Mechanical converter tuyere punching at the McGill smelter. J. B. Huttl ....Aug. *84
Mobile radio system serves largest open-cut copper mine ....Aug. *96
Kenville Gold ....July n117; Aug. n161; Sept. n135
Kenyon & Co. ....June n124
Kerr-Addison Gold ....Apr. n148; Sept. n132
Kicking Horse ....Nov. n142
King Island Scheelite ....Jan. n130; Feb. n176; Apr. n158; May n145; Aug. n168; Oct. n144
Kingston Gold ....Oct. n147
Kirk ....July n92
Kirkland Lake ....Sept. n132
Klondike ....Oct. n118
Knox ....Dec. n134
Kromona ....May n132
Kuala Kampar Tin Fields..........Mar. n140
Kyack Copper ....Apr. n151

L

Labor:

The Carlsbad strike ....Apr. *77
Change house can build morale. Lamar Weaver. ....Dec. *98
CIO's ouster of mine, mill union may upset industry's labor relations....Mar. 90
Kellogg strike settlement terms..Jan. 110
Mine, Mill and Smelter Workers' convention at Denver ....Oct. *104
Mine, Mill vs. CIO fight means turmoil for mining. J. M. Gambatese....Apr. *73
Stop the manpower muddle before it's too late ....Oct. 72
Strike in potash mines, New Mexico ....Jan. n116

Labrador:

Iron deposits ....Dec. n150
Iron ore in Labrador ....Feb. *150
Iron ore and the St. Lawrence Seaway. W. H. Durrell ....May *92
Labrador Mining & Exploration...Jan. n120
Ladulama ....July n113
Lady Claire Gold ......July n122; Oct. n142
Lady Frances ....June n124
Lady of the Lake ....Dec. n142
Lake ....Oct. n114
Lake George ....Apr. n160
Lake-Osu ....June n130; Aug. n153
Lake Shore ..Feb. n166; Apr. n149; Aug. n154
Lake View & Star......Jan. n127; July n121
Lake Wasa...Apr. n147; Oct. n133; Dec. n147
Lamaque Gold ....June n128, 131; July n113
Lark ....Sept. n130
Laucks Chemical ....Feb. n165
Lautaro Nitrate ....Feb. n171

Lead:

Bunker Hill's flash grind. Frank McKinley ....Jan. *64
Inside Yugoslavia—the Trepca Mine's great possibilities. J. J. Christie.June 77
Lead supply and consumption—1948-1949, prices. R. L. Ziegfeld (chart and tables) ....Feb. *84
Long-term demand will force metal prices up. W. P. Shea (charts and tables ....Mar. *81
Sidney mine uses the flash grind, too ....Jan. *67
Trepca's ore hearth output set record during World War II. J. S. Stewart ....Oct. *92
Western European production and consumption of lead. R. L. Wilcox.May 88
Lead Industries Assn. meeting .....June 114

e editorial; n news; c comment and criticism; * illustrated

Leadville Lead .....Apr. n136; Dec. n132
Lee Gordon .....Feb. n166; May n140
Lehigh Portland Cement .....Jan. n118
Leitch Gold .....Apr. n148; Oct. n132
Lepanto Consolidated .....
.....Jan. n132; Mar. n140; May n142; June n138, July n121; Aug. n174; Oct. n148
Leroy .....Dec. n129
Liberia Co.—lesson for investors in slump of project .....Jan. 85
Lillian Creek .....Dec. n129
Linda M .....Nov. n136
Lindquist Pumice & Concrete.....May n133
Ling .....Oct. n112
Lithium:
Vacuum metallurgy. A. W. Schlechten .....July 72
Little America .....June n132
Little Artic Gold .....Nov. n135
Livengood Placers .....Jan. n107
Livingston .....Sept. n115
Loading:
Cycle planning for rock headings means more footage per day. R. W. Jenkins .....May *72
Sturdy idler and tail block reduce scraping costs. .....Dec. *114
Trackless mining progresses. A. H. Hubbell .....Feb. 113
Loloma Gold .....Feb. n177; Oct. 148
Longyear .....Dec. n136
Lucky-Friday Silved-Lead ...Mar. n116; Apr. n138; June n117, July n92; Dec. n134
Lucky Star .....Nov. n132

M

Macassa .....Apr. n149
Macdonald .....Dec. n146
MacLeod-Cockshutt Gold May n135; Sept. n132
Macy .....July n108
Madison County Mining Assn. meets. Dec. n129
Madrona .....Oct. n112
Madsen Red Lake Gold.....Oct. n132
Magma Copper.....Feb. n151; Dec. n129
Distilled water container .....Jan. *86
New high-grade copper ore discovered .....June *112
Magnesium:
Production in 1949. R. J. Lund....Feb. 92
Vacuum metallurgy. A. W. Schlechten .....July 71
Maintenance and Shops:
Battery maintenance .....Jan. *90
Churn drill rig serves as construction crane .....Apr. *108
Distilled water container.....Jan. *86
Flame-heating equipment repairs damaged cars .....Sept. *104
Gold fish bowl for electric motors.June *94
High and low-water alarm for tank... .....Nov. *112
How to align herringbone gears ...Jan. 90
Ladder-making machine cuts costs by 50 percent. H. M. Courtney.....May *106
Reel kinks removed from rope....July *85
Sag vs. belt length in V-belt drives. F. H. Rumble .....Nov. 94
Shop dolly .....Jan. *86
Short-center V-belt drives cost less to install. F. H. Rumble .....Aug. *104
Testing panel for faulty insulation.Nov. *111
Tool speeds installation of piston rings .....July *85
Torque-meter for equalizing tension on bolts and rods.....June *92
Trolley hook for small hoist.....Jan. *86
Wire rope maintenance pays .....July 87
Work support is adjustable.....Mar. *109
Malartic Gold Fields.....June n129; Oct. n132
Mammoth .....May n111
Management:
Indoctrination program pays off. Wolters & Lutjen.....Jan. *58
Oliver's training program. Cotter & Roleff. .....Dec. *74
Stop the manpower muddle before it's too late .....Oct. 72
Why the mining industry should employ more trained talent now. .June *56
Mandated Alluvials .....Oct. n148
Manganese:
Philippine manganese resources limited. S. J. McCarroll.....Dec. *88
Production of manganese in 1949. N. B. Melcher .....Feb. 97
Steelmakers eye Brazilian manganese .....Nov. n*129
Manganese Products ....Feb. n165; Mar. n126
Manhanor Malartic .....July n114
Marble Springs
.....May n111; Oct. n112; Nov. n121
Marcus Gold .....Oct. n132
Maria Elena .....Oct. n140
Marshall & Miles Gravel.....Mar. n114
Martin .....May n120
Mary Ellen .....Feb. n155; Oct. n114
Matachewan Consolidated .....Apr. n148
Mather "A" .....Feb. n157
Mather "B" .....Feb. n157
Maude & Yellow Girl Gold.....Jan. n128
Mazapil Copper .....Mar. n134; June n136
McKenzie Red Lake Gold.....May n135
Meadow Creek .....Jan. n118
Memphis .....May n129
Mercury:
Consumption of mercury in 1949. H. M. Meyer .....Feb 94
In Italy mercury cartel splits in price war .....June 142
Merger .....Dec. n134
Merriespriat Gold .....Nov. n148
Merrill Island .....Oct. n134
Merrimac .....Oct. n119
Messina Development .....Mar. n141
Metaline & Pine Creek.....May n114
Metaline Mining & Leasing.....May n114
Metallurgy, Electro:
Low-cost production of zinc dust from oxidized ores. Morgan & Gray...Mar. *72
Metallurgy, Hydro:
Better way to assay cyanide mill solutions. A. R. Schellinger.....Jan. 74
New process may make low-grade tin ore profitable. Fink & Strauss. .Dec. *96
Metallurgy, Pyro:
Erganl, mainstay of Turkey's copper mining. S. E. Burgi.....Apr. *92
Fluosolids for roasting. T. B. Counselman .....Mar. *84
Indoctrination program pays off. Wolters & Lutjen.....Jan. *58
Mechanical converter tuyere punching at the McGill smelter. J. B. Hutti .....Aug. *84
1949 was a year of progress in nonferrous metallurgy. A. W. Schlechten .....Feb. *126
Smooth operation of the electrically-driven casting wheel. R. B. Moore .....Mar. *86
Trepca's ore hearth output set record during World War II. J. S. Stewart .....Oct. *92
Vacuum metallurgy—a new and growing industry. A. W. Schlechten. .July 71
Metalurgica Occidental .....June n137
Mex-Tex .....Apr. n143; Dec. n141
Miami Copper .....
.....Jan. n107; Apr. n120; May n111; June n113
Mica:
Colorado pegmatite deposit yields beryl and mica. C. A. Wemlinger.....Nov. *92
Developments in 1949.....Feb. 105
Mike Horse Mining & Milling .....
.....Apr. n138; Aug. n124
Mill Creek Copper.....Oct. n117
Miller-Mohawk .....Oct. n114; Dec. n134
Milling:
Accurate reagent feeder for small quantities. A. O. Ashman .....Apr. *98
Batch-test centrifuge. E. L. H. Sackett .....Apr. *79
Blackburn heavy-density plant opens new brown iron ore reserves. A. M. Shook .....Sept. *78
Bunker Hill's flash grind. Frank McKinley .....Jan. *64
Carlton mill nears completion .....Sept. *112
Cyclone separator may be solution for fine iron ore problem. Erickson & Herkenhoff .....June *71
Flap doors for diverting feed to bins .....Mar. *108
Fluid energy mill.....Mar. *102
Gold-bearing gravel mined with dry-land dredge. J. B. Hutti .....June *68
Heavy-density separation cuts brown ore treatment cost. S. A. Britton..July *68
How Getchell mine and mill prepare for greater output. J. B. Hutti .July *60
How heavy-media separation recovers African diamonds. I. F.Cairns...Sept. *86
The Humphreys spiral. Thompson & Brown .....Aug. *87
Iron ore beneficiation leads advance in milling .....Feb. *116
Magnetic iron sampler .....Aug. *104
Modernizing New Jersey Zinc's Eagle Mill. J. G. Craig .....
.....pt. 1, Oct. *80; pt. 2, Nov. *101
New Calumet & Hecla lead-zinc mill. Korts & Walvoord.....July *78
Selecting rods of the proper size for the rod mill. F. C. Bond.....Oct. 85
Sidney mine uses the flash grind, too .....Jan. *67
Strong dosage is remedy in gold recovery problem. Keith Kunze .....Jan. *71
Telluride Mines recovers values in slimes .....Nov. *112
Three new steps in treating Florida phosphate rock. Arthur Crago...Nov. *78
Wollastonite—a new industrial mineral. R. B. Ladoo.....Nov. *95
Mindanao Mother Lode .....
.....Jan. n132; Mar. n140; Apr. n157; May n142; June n138; Nov. n147
Mine Examination and Valuation:
The Hoskold formula is justified. F. G. Pardee .....Jan. 76
Proposed method of computing depletion allowances .....Oct. *71
Mine, Mill and Smelter Workers Union .....see Labor
Mine & Smelter Supply.....Feb. n153
Mineral Economics:
ECA okays more loans for foreign mines .....Aug. 106
Emergency mine production must be safeguarded now .....Sept. 63
Europe will need metals from Western Hemisphere. R. L. Wilcox.....May *88
How tonnage and grade relations help predict ore reserves. S. G. Lasky .Apr. *81
A mining program to defend civilization .....Sept. 66
Production proration can serve industry and public. Evan Just.....July 56
Steady demand ahead as mining enters 1950 (chart) .....Feb. 72
Take action on taxation.....Mar *66
Tariff rates, history and negotiable ranges .....June 88
Truman seeks broad economic controls .....Aug. 106
What you should know about depletion allowances .....Mar. *60
Mineral Engineering .....Dec. n131
Mineral Policy:
Defense Production Act grants broad powers to control economy and stimulate production .....Oct. 104
Emergency mine production must be safeguarded now .....Sept. 63
How to deal with defense agencies. Nov. 72
A mining program to defend civilization .....Sept. 66
Skeleton allocation .....Aug. 107
Stop the manpower muddle before it's too late .....Oct. 72
Mineral Resources:
Long-term demand will force metal prices up. W. P. Shea (charts & tables) .....Mar. *81
New uses for low-priced fibers vital to Canadian asbestos. W. A. Rukeyser .....Mar. *76
Today's iron ore sources and our future supply .....Mar. *70
Mines Management.....Feb. n165, June n125
Mingus Mountain .....May n111
Mining:
Bagdad yields bigger tonnage as open pit .....Jan. *72
Block-caving mining of asbestos in Canada. W. A. Rukeyser.....May *94
Bucketline dredge recovers placer scheelite. W. A. Noon.....May *82
Cycle planning for rock headings means more footage per day. R. W. Jenkins .....May *72
Fast delays improve blasting at Balmat .....Apr. *97
How Natomas keeps a large dredge operating in the desert. J. B. Hutti .....Oct. *96
Ilmenite is mined from traveling lake, Starke, Fla. .....Jan. *106
Mobile radio system serves largest open-cut copper mine .....Aug. *96
Philippine manganese resources limited. S. J. McCarroll.....Dec. *88
Pressure and rockburst. M. L. Johnston .....Sept. *91
Quemont—designed today for tomorrow's production. R. J. Dionne..Oct. *74
Steady demand ahead as mining enters 1950 (chart) .....Feb. 72
What is best in drilling blast holes?—it appears to depend upon conditions. C. H. Hopper.....Apr. *86
Mining Association of British Columbia Annual Meeting .....Mar. 128
Mining Assn. of Montana convention.....
.....July n106; Sept. n130
Models
Misamis Chromite .....Mar. n140
Models:
How plastic relief model aids mine development planning .....Mar. *64
Modern Gold Dredging.....Oct. n130
Mohawk Silver-Lead .....July n93
Mollie Kathleen .....Jan. n109
Molybdenum:
Production of molybdenum in 1949. H. W. Davis.....Feb. 99
Monarch .....Mar. n130; Nov. n142
Monsanto Chemical .....Apr. n145
Montana Mining Development.....Feb. n153
Montana Rainbow .....June n121
Montana Silver-Lead .....Nov. n152
Montecatini .....May n146
Montreal .....Jan. n112; May n116
Moonlight .....Sept. n126
Moore Creek .....June n113
Moore, W. S. .....Oct. n114
Morning Star .....June n139
Mount .....Feb. n174
Mount Diablo Exploration .....
.....Aug. n116; Sept. n114
Mount Isa
....Jan. n131; Feb. n176; Mar. n139; June n140; Aug. n169; Oct. n146; Dec. n157
Mount Lyell Mining & Railway .....
.....Jan. n130; Feb. n176 Apr. n160; July n133; Aug. n168; Oct. n145; Dec. 156
Mount Morgan .....June n139; July n128; Oct. n146; Nov. n152; Dec. n157
Mountain Copper:
Makes own carbide-tipped steel ..Jan. 82
Mountain View Gold.....Mar. n137
Myrtle Creek .....Dec. n129

N

Nabob.....Apr. n136; June n117; Oct. n114
Nancy Lee.....Jan. n118; Aug. n123
Trap for motors.....Apr. *109
National Lead .....Feb. n171
Batch-test centrifuge. E. L. H. Sackett .....Apr. *79
Torque-meter for equalizing tension on bolts and rods .....June *92
National Malartic Gold.....Sept. n134
National Steel Works .....Dec. n153

e editorial; n news; c comment and criticism; * illustrated

Natomas ..... Feb. n159
How Natomas keeps a large dredge operating the desert. J. B. Hutti Oct. *96
Navajo Reservation—carnotite discovered ..... Nov. n121
N'Changa ..... Oct. n150
Nekoosa-Edwards Paper Co.:
Gold fish bowl for electric motors June *94
Nevada Diversified Industries..... May n128
Nevada-Massachusetts... Feb. n160; Apr. n143
New Calumet ..... Nov. n144
New Coolgardie Gold .... May n144; July n122; Dec. n155
New Dickenson .... June n131, Oct. n132; Dec. n147
New Guinea Copper ..... Oct. n148
New Jersey Zinc:
Accurate reagent feeder for small quantities. A. A. Ashman..... Apr. *88
Modernizing New Jersey Zinc's Eagle Mill. J. G. Craig. pt 1 Oct. *89 pt 2 ..... Nov. *101
Short-period delays help in enlarging shaft stations. Sauerwein & Hastings..... May *85
New Kleinfontain Gold ..... May n149
New Mexico Miners & Prospectors Assn. Convention..... Mar. 124
New Occidental Gold..... Apr. n160; ..... July n123; Aug. n169; Oct. n145
New Park ..... Jan. n118; July, n110; Aug. n149; Sept. n129; Oct. n129; Dec. n143
New York & Montana ..... May n120
New Zealand:
Two ex-gold mines to be reopened Jan. 128
Newlund... June n130; July, n113; Sept. n132
Newmont ..... Feb. n160; May n121; Aug. n124; Dec. n140
Nicholson ..... Oct. n136
Nickel:
Production of nickel in 1949. H. W. Davis..... Feb. 99
Nickel Mountain ..... Oct. n128
Nilumbik ..... June n139
Nisto ..... Oct. n136
Noland..... Aug. n161; Oct. n137; Dec. n149
Non-metallic minerals:
Wollastonite—a new industrial mineral R. B. Ladoo..... Nov. *95
Non-metallics ..... Feb. *100
Nor-Acme ..... May n139
Noranda ..... May n136; Oct. n134
Big mine, bright future ..... July *90
Norlartic ..... July n114; Sept. n133
Normetal ..... June n129; Oct. n133
Norsemen Gold..... Jan. n127; Mar. n137
North Broken Hill Jan. n130; Mar. n139; May n145; July n123; Oct. n145; Dec. n157
North Butte ..... Dec. n138
North Kalgurli ..... Dec. n155
North Lily ..... July n110
North Mindanao ..... Nov. n148
North Range ..... Jan. n113; Mar. n120; Aug. n123; Sept. n124; Oct. n110, Dec. n136
Northern Peru Mining & Smelting. July n120
Northern Star Gold..... Mar. n138
Northwest Electro Development Laboratory ..... July n108
Northwest Gypsum ..... Nov. n136
Northwest Magnesite. . Jan. n118; June, n126
Northwest Mining Assn. meets.... Dec. n145
Norway
Combination jumbo and slusher speeds incline shaft project. Larssen & Wells-Strand ..... Dec *87
Nubar ..... Dec. n147
Nueva Rosita ..... July n119
Nutmeg ..... Nov. n121

O

O'Brien Gold ..... Feb. n166
Ogama-Rockland Gold .... Mar. n132; Apr. n149; Aug. n165; Sept. n135; Oct. n135; Nov. n142
Oglebay, Norton & Co... Mar. n120; June n119
Oil:
Domestic oil conservation..... July, 58
Old Torpedo ..... Mar. n123
Oliver Iron ..... Jan. n112, Feb. n54; .....Mar. n118; Apr. n140; May n116; June n119; Aug. n121; Sept. n122; Dec. n135
Oliver's training program. Cotter & Moloff..... Dec. *74
Olympic Portland Cement..... June n126
Omineca Projects ..... June n132
Ooregum Gold ..... Jan n133
Ora Banda Amalgamated..... May n144
Ora Del Loma..... Mar n114
Ore Reserves:
U. S. reserves of potash estimated on sound basis. J. W. Turrentine... Aug. *94
Oregon King ..... Oct. n128
Oriental ..... Jan. n107; June n113
Original Sixteen-to-One Gold..... Feb. n152
Orino ..... Feb. n172
Orinoco Mining ..... May n141
Orofino ..... July n113; Oct. n112
Osulake ..... June n130
Ozark-Mahoning ..... Mar. n120
Ozokerite:
Mineral wax produced in Utah used on typewriter ribbons. C. W. McCullough..... May *81

P

Pacific ..... May n111
Pacific Asbestos ..... Dec. n149
Pacific Butte ..... Nov. n134
Pacific Carbide & Alloys..... Jan. n116
Pacific Isle ..Mar. n118; Aug. n121; Dec. n135
Pacific Northwest Alloys..July n112; Oct. n131
Pamour Porcupine ..... May n134
Panaminas ..... Jan. n132
Pandora Metals ..... July n92
Pantheon Plumbe ..... Apr. n143
Papago Chief ..... June, n113
Papoose ..... Nov. n121
Park City Consolidated ..... Dec. n132
Park Utah Consolidated..... Feb.n 164; Mar. n125; July, n110; Oct. n129
Patino Mines & Enterprises Consolidated ..... Jan. n120; July, n119
Pato Consolidated Gold Dredging... Feb. n177
Patti Rosa ..... May n114
Pedro de Valdivia..... June, n134
Pend Oreille Mines & Metals..... ..... Apr. n146; May, n114; July, n110
Penn ..... Jan. n107
Perlite:
Developments in 1949. S. W. Johnson. ..... Feb. *102
New industry for the West—mining and processing. Willey & Taylor... June, *80
Perlite Development ..... Jan. n116
Pewabik Mining Syndicate..... Jan. n107
Phelps Dodge ..... Feb. n151; Mar. n113; July, n91; Aug. n145
Philippine Iron ..... June, n138
Philippine Republic
Manganese resources limited. S. J. McCarroll..... Dec. *88
Phosphate:
Developments in 1949. J. A. Barr. ..... Feb. 103
Three new steps in treating Florida phosphate rock. Arthur Crago... Nov. *78
Uranium found in Florida's phosphate deposits..... Aug. 92
Piccardo Y Cia, L. M..... Feb. n170
Pickands, Mather & Co..... Jan. n113; Mar. n118, 120; Apr. n139; May, n116; .....July, n93; Sept. n122, 124; Oct. n116
Pickle Crow Gold ..... July n113; Dec. n147
Pilot Annex ..... Dec. n134
Pine Hill ..... Feb. n158
Pipe of fiber glass..... Mar. *101
Platinum:
Developments of platinum in 1949. H. W. Davis..... Feb. 95
Platte River Placers.... Jan. n109; Oct. n112
Plumbago ..... Jan. n107
Polaris ..... July n92
Polaris-Silver Summit ..... Mar. n116; Apr. n136; Sept. n115
Polaris-Taku ..... Mar. n129
Porcupine ..... Nov. n144
Porcupine Reef ..... Dec. n147
Porter & Co..... Mar. n124; May n130
Portales ..... Dec. n141
Porter Bros. ..... Nov. n133
Potash:
The Carlsbad strike..... Apr. *77
Production and developments in 1949. Jack Pierce..... Feb. 100
U. S. reserves of potash estimated on sound basis. J. W. Turrentine..... Aug. *94
Potash Co. of America: ..... Feb. n160; Mar. n123; May, n130; June n123; July, n107; Aug. n145
Powder River Dredging.. Sept. n128; Oct. n128
Powell Rouyn Gold ..... Dec. n147
Power generation:
Converting single-phase power into three-phase current for the plant at Eagle Picher..... Oct. 99
Premier Diamond:
How heavy-media separation recovers African diamonds. I. F. Cairns... Sept. *86
President Brand Gold..... Apr. n156
President Steyn Gold..... Apr. n156
Preston East Dome..... May n154
Prices:
E & M J metal prices 1897-1949 (chart & tables)..... Feb. 86
Pride of the West..... Sept. n114
Princess Royal Gold ..... Apr. n158
Privateer..... Jan. n123; Oct. n139
Promistora Gold ..... Oct. n138
Proper ..... Nov. n128
Prospecting:
Airborne radioactivity surveying speeds uranium prospecting. F. W. Stead. ..... Sept. *74
The airplane dominates in modern exploration methods. Lundberg & Wilson..... Feb. *106
Providence Tuolumne Gold..... Nov. n128
Public Lands:
Assessment work bill unlikely to pass. ..... June, 90
Pumice:
Discovered in Oregon..... Dec. n142
Production in Oregon..... Feb. n161
Pumping, mine:
Hoisting crushed ore through hydraulic lift. P. S. Gardner, Jr..... Sept. *84
If pump fails—motor stops..... Apr. *109
Preventive maintenance at the Empire
Pump parts last longer with silicon carbide. J. J. Burns..... Dec. *94
Star Mines..... Feb. *149

Q

Quartz Hill ..... Dec. n130
Quatsino Copper-Gold ..... Dec. n160
Quebec Chibougamau Goldfield..... Dec. n146
Quebec Iron & Titanium ..... Apr. n147; Sept. n134; Nov. n144
Queenston ..... June, n130
Quemont.... June, n128; Aug. n154; Oct. n133
Designed today for tomorrow's production. R. J. Dionne..... Oct. *74
Quincy ..... Feb. n158; Mar. n122; May n119; Dec. n138

R

Ramwick Uranium ..... Oct. n132
Rare Earths ..... Oct. n114
Rare Metals Corp..... Apr. n131
Rare Minerals ..... Dec. n141
Red Granite ..... Sept. n126
Red Hawk Gold ..... Dec. n160
Red Hill ..... Dec. n140
Red Hill Florence..... Nov. n134
Red Point ..... Apr. n132
Redlite Aggregate ..... Mar. n114
Reeves MacDonald ..... Feb. n167; May, n133
Portable trolley pole welded to steel tie. ..... June, *94
Reeves Ranch Dredging..... Oct. n112
Renabie ..... Oct. n132
Reno Gold ..... Apr. n152
Renong Consolidated Tin Dredging ..... Mar. n140
Republic Steel ..... Jan. n112; Mar. n119; June n120; Oct. n114; Nov. n132
Adirondack mining properties.... Nov. *75
Research:
How management can profit by using research ..... June *57
Planning and research cut costs at Climax..... June *59
Test chamber for diamond drilling experiments. R. S. Young ..... Sept. *95
Reserve ..... Nov. n132
Resurrection ..... Feb. n153
Strong dosage is remedy in gold recovery problem. Keith Kunze ..... Jan. *71
Reynolds Jamaica:
First Caribbean bauxite development. O. C. Schmedeman ..... Nov. *98
Reynolds Metal ..... Mar. n118, 124, 136; May n111; June 124; Dec. n142
Rhompson-Weinman ..... Oct. n114
Rhude & Fryberger ..... Mar. n118
Rhude Media ..... May n116
Richmond Eureka ..... Nov. n135
Rico Copper ..... Jan. n123
Rio Del Monte ..... June n113
Roan Antelope:
Copper mining in Northern Rhodesia ..... May *110
Roasting:
FluoSolids for roasting. T. B. Counselman ..... Mar. *84
Rockbursts see Mining
Rochester Consolidated ..... Nov. n134
Rosario ..... Nov. n147
Rosiclare Lead & Fluorspar ..... Jan. n114; Mar. n120; May n118; Aug. n122
Round Mountain Gold Dredging..... ..... May n128; July n106; Oct. n118
New 17,000-ton dry-land "dredge" uses draglines, shovel, belts, washing plant. J. B. Hutti..... June *68
Royal ..... Apr. n132
Ruby Hill ..... Oct. n118
Rustenburg Platinum ..... Jan. n134

S

Safety and Welfare:
Concreting pays for slushing and haulage drifts. Joseph Bernhardt... Dec. *82
Drilling with penumatic pusher or jackleg ..... Aug. 101
Indoctrination program pays off. Wolters & Lutjen ..... Jan. *58
Sentinel of Safety awards ..... July 92
St. Eugene ..... Mar. n113
St. Helena Gold ..... Apr. n155; July n125, Oct. n150, Dec. n154
St. James ..... July n93
St. Joseph Lead:
Fast delays improve blasting at Balmat ..... Apr. *97
Pump parts last longer with silicon carbide. J. J. Burns..... Dec. *94
Two diesel trucks underground... July 82
St. Regis ..... Dec. n143
Salmite Consolidated ..Sept. n136; Oct. n136
Sampling:
Automatic sample preparation saves time, money for USGS. W. P. Huleatt ..... June *62

e editorial; n news; c comment and criticism; * illustrated

Magnetic iron sampler ....Aug. *104
San Antonio Gold ....Jan. n124; May n139; June n128
San Francisco ....Nov. n146
San Juan de Lucanas ....June n137
San Juan Mining & Development....Dec. n132
San Manuel Copper ....June n113; July n91; Dec. n129
Sannorm ....Nov. n142
Santiago ....Jan. n123; Feb. n168; May n138
Sarita ....Nov. n121
Schist Lake ....June n127
Schley ....Sept. n122
Scott, J. H. ....Sept. n112
Selawik River—gold discovered....Oct. n109
Senator Silver-Lead ....May n114

Shafts, Installation and Sinking:

Combination jumbo and slusher speeds incline shaft project. Larssen & Wille-Strand. ....Dec. *87
Hydraulic material lift for hoisting crushed ore. P. S. Gardner Jr....Sept. *84
New hoist protective device prevents overwind, overspeed. C. M. Marquardt ....Sept. *71
Pre-assembled timber sets speed shaft rehabilitation. J. B. Huttl....Apr. *100
Shaft surveying method features accuracy. Durk & McIntyre....Apr. *90
Skip redesigned with rubber wheel mountings and ball bearings....July *63
Steel clamp holds pipe in manway.June *92
Shattuck-Denn ....Jan. n107
Shawkey ....Sept. n134
Sheep Creek Gold ....Jan. n122; May n137; Aug. n158; Nov. n140
Shenandoah-Dives ....June n116
Sherritt Gordon ....Jan. n124; Feb. n166; Mar. n132; Apr. n132; May n140; July n115; Oct. n135; Nov. n142
Sherwood ....Feb. n157; Sept. n124
Shook & Fletcher Supply Co.:
Blackburn heavy-density plant opens new brown iron ore reserves. A. M. Shook ....Sept. *78
Siderurgica Venezolana ....May n141
Sidney ....Mar. n117; Oct. n114
Flash grind used ....Jan. *67
Sierra Monarch ....Feb. n152; May n112; June n112
Sigma ....May n136
Signal ....May n120; July n105
Silbak-Premier ....Feb. n169; May n137; June n132; Nov. n141
Silicosis:
Aluminum therapy for silicosis shows favorable results in Canada....Aug. 100
Arizona liberalizes its interpretation of compensation for silicosis ....Dec. n129

Silver:

Canadian cobalt camp comes back. G. P. Lutjen ....Nov. *86
Cobalt-Gowganda area of Ontario, Can., shows increasing production....Aug. 97
Cuba selling demonetized silver. Herbert Bratter ....July 73
Silver production and circulation of silver money in the U. S. D. H. Leavens (tables) ....Feb. *80
Silver Bell ....Apr. n134
Silver Bounty ....Nov. n141
Silver Bowl ....Nov. n130; Dec. n132
Silver Dollar ....Feb. n154; June n118
Silver Giant ....Feb. n168
Silver King Coalition ....Feb. n164; Mar. n125; Dec. n144
Silver King Divide ....Dec. n129, 139
Silver Miller ....May n135; Aug. n152; Oct. n132
Silver Mountain ....May n133
Silver Ridge ....Mar. n139; Aug. n162
Silver Shield Mining & Milling....Jan. n108
Silver Standard ....Jan. n123; Feb. n168; Mar. n131; June n133; Aug. n160; Oct. n138; Dec. n150
Silver Star-Queen ....Feb. n154
Silver Summit ....May n114; July n93; Oct. n111
Silver Syndicate ....Mar. n117; June n117; Sept. n115; Oct. n112; Dec. n132
Silver Tip Gold ....May n137
Silverton ....Mar. n116; May n120
Siscoe Metals ....Jan. n120
Siskiyou ....Oct. n112
Sisko ....Jan. n107
Sixteen-to-one ....Oct. n109
Skyline ....Feb. n151
Sloss-Sheffield Steel and Iron ....Dec. n129
Heavy density separation cuts brown ore treatment cost. S. A. Britton ....July *68
Smelting:
Hayden copper furnace reports on a long campaign. P. J. Downey....Sept. *82
Snelling Gold Dredging ....Jan. n108
Snyder ....June n119
Soc. Min. de Nou Azzer et du Graara of Casablance. ....Dec. n152
Society Girl ....Feb. n167
Sodium:
Vacuum metallurgy. A. W. Schlechten ....July 72
South Fork Mining & Leasing ....Feb. n154
South Kalgurli Consolidated....Jan. n127
South Virginia Gold ....July n122
Southern Kinta Consolidated....Mar. n140
Southern Minerals & Marketing Corp. ....Feb. n173
Southern Rhodesia:
Umvukwe chrome mines drilling with rotary carbide-tipped stems ....July 85
Southern Zonolite ....July n108
Southwest Dredging ....May n128
Southwest Potash ....Mar. n123; Aug. n145; Dec. n141
Spanish Gulch ....Mar. n124
Spokane-Idaho ....Apr. n138; June n118
Spokane Molybdenum ....Feb. n164
Spud Valley Gold ....May n137
Squall Lake ....June n128
Standard ....July n108
Standard Fire Creek Coal Co.
Detachable cap-lamp holder focuses light on work. ....Dec. *110
Stanley ....Feb. n155; July n93
Star ....July n92
Stauber ....Mar. n128
Steel—NPA steel order for priority sales may set pattern in non-ferrous metals ....Nov. 108
Steep Rock ....Dec. n147
Steep Rock Iron ....Mar. n120; Nov. n132; Dec. n136
Sterling Gold ....Mar. n137
Stevens ....Nov. n128
Stilfontein Gold ....Apr. n156; Dec. n154

Stockpiling:

Korea fighting spurs stockpiling activity ....Sept. 98
No intent to draw on stockpiles..Aug. 106
Stockpiling policies are scheduled for probe ....May 105
Stoping:
Chain feeder in block-caving transfer drift ....Apr. 103
Pressure and rockburst. M. L. Johnston ....Sept. *91
Stora Kopparberg ....Apr. n154
Subsidies:
Revamped mine incentive payments bill has good chance of passage.Jun 90
Sullivan ....May n114; July n93, 111; Oct. n131; Dec. n132
Sullivan Consolidated ....Jan. n121; Mar. n117; July n113
Sulphur:
13 ways a sulphur producer cut costs and improved handling. A. A. Gustafson ....Jan. *68
Summit King ....May n128
Summit Queen ....Dec. n140
Sunny Peak ....July n112; Oct. n131
Sunset Minerals ....Jan. n111; Dec. n132
Sunshine ....Feb. n154; Apr. n135; May n114, 121; June n116; Sept. n115, 122; Nov. n130
Sunshine Consolidated ..Apr. n138; June n117
Superior Fluorspar ....July n106; Oct. n117
Superlite ....Mar. n113
Superlite Materials Corp. ....Sept. n127
Surigao Consolidated ....Apr. n137; May n142; Aug. n174; Nov. n148
Surveys, see Engineering Office
Sweden:
Carbide-tipped jumper drills ....Aug. 101
Swiss Aluminum ....Dec. n142
Sylvanite ....July n113

T

Taconite:
Report on taconite. E. W. Davis...Nov. *84
Tambo del Bol ....June n137

Tariff:

Copper tariff ....Aug. 107
Mexican tariff ....Aug. 107
Tariff rates, history and negotiable ranges. (table) ....June. 88

Taxation:

Depletion ....June. 91
Percentage depletion in for over-haul this year, Treasury favors subsidies ....Feb. 126
Six-point tax program to help the mining industry. ....Mar. 57
Take action on taxation ....Mar. 56
Treasury looms as stumbling block for mining's tax reform proposals...Jan. 84
What you should know about depletion allowances. ....Mar. *60
Taylor ....June n133
Telluride Mines:
Dutch cyclone recovers values in slimes ....Nov. *112
Roof bolting eliminates timber of telluride. ....Dec. *101
Tennessee Coal, Iron & Railroad:
Tipped steel for roof bolting....Jan. 82
Tennessee Copper ....Mar. n125; Dec. n142
The change house can build morale. Lamar Weaver. ....Dec. *98
How management can profit by using research ....June. 57
New skip helps three ways ....July *63
Terrible ....Nov. n128
Thickening:
Batch-test centrifuge. E. L. H. Sackett ....Apr. *79

Timbering:

Better way to wire wedge bundles ....Apr. *109
How to make your own roof bolts. Dec. *112
Roof bolting eliminates timber of telluride. ....Dec. *101
Roof bolting in Alabama....July, 82
Steel for roof bolting....Sept. 97
Substitute for timbering. A. M. Hubbell ....Feb. 112
Tipped steel for roof bolting....Jan. 82

Tin:

Ancient Cornwall is pinched now but sees good future in output....Oct. *108
Changes in world production of tin. ....Oct. *108
The International Tin Committee. July. 57
New process may make low-grade tin ore profitable. Fink & Strauss...Dec. *96
Tin determination made easy and accurate. J. G. Davila....July. 81
U. S. tin supply and allocations, 1948-49. H. H. Wanders. (table)....Feb. 89
Tintic Standard ....July n110
Titanium:
Developments of titanium in 1949. H. M. Meyer. ....Feb. 96
Tongkah Compound M. L. ....June, n140
Tonopah-Belmont ....July n106
Tonopah Divide ....Apr. n142
Toquepala ....July n120
Torbrit Silver ....June n133; Aug. n158
Tracy ....Dec. n137
Training, see management
Treasure Mountain Gold..Sept. n114; Oct. n112
Trench ....May n111
Trepca:
Inside Yugoslavia, the Trepca Mine's great possibilities. J. J. Christie. ....June. 77
Mine's ore hearth output set record during World War II. J. S. Stewart. ....Oct. *82
Triumph ....Sept. n115
Trout ....Oct. n117
Tungsten:
Bucketline dredge recovers placer scheelite. W. A. Noon....Mar. *82
Production of tungsten in 1949. H. W. Davis. ....Feb. 98
Tungsten King....Nov. n128
Tungsten Mining & Milling....Feb. n165
Turk ....Dec. n144
Turkey:
Ergani, mainstay of Turkey's copper mining. S. E. Birgi....Apr. *92
Turkey Creek ....Dec. n142
Turquoise:
Property at Columbus....Sept. n126

U

Union Miniere du Haut Katanga... Oct. n150
United Keno Hill ....Jan. n124; June. n133; Aug. n157
U. S. Geological Survey:
Automatic sample preparation saves time, money. W. P. Huleatt....June, *62
U. S. Grant....May n120
U. S. Gypsum ....July n111; Nov. n135
U. S. Potash....Feb. n160; Mar. n123
U. S. Smelting, Refining & Mining ....Mar. n113; Apr. n129; June. n113; Aug. n111; Oct. n109
U. S. Steel:
Cerro Bolivar—U. S. Steel's new iron ore bonanza. M. C. Lake....Aug. *72
U. S. Vanadium. Jan. n109; Feb. n162; Mar. n114; June n114; Nov. n121; Dec. n130
Upper Canada....Apr. n148

Uranium:

Airborne radioactivity surveying speeds uranium prospecting. F. W. Stead. ....Sept. *74
Arkansas discovers ....Dec. n129
Australian finds ....Dec. n156
Canada boosts uranium prices....June n127
Colorado deposits ....Dec. n131
Diamond drilling for uranium on the Colorado Plateau....Oct. *86
Geiger counters are now airborne and carborne. ....Apr. *136
Nevada discoveries ....Dec. n140
Ore discovered in Colorado....Nov. n128
Ore discovered in New Mexico....Nov. n135
Ore discovered in Northern Africa. Nov. n150
Primary uranium ore now being mined in Utah. James Quigley....Aug. *90
Small amounts of uranium occur in Florida's phosphate deposits....Aug. 93
Uranium Production....Apr. n142
Uruwira Minerals ....Oct. n148
Utah:
Primary uranium ore now being mined in Utah. James Quigley....Aug. *90
Utah Construction ....Mar. n114
Utah Mining Assn ....Feb. n162; Sept. n120
Utah Park City....Oct. n130
Utica ....Mar. n128; Dec. n160

V

Van Roi ....May. n137
Vananda ....Mar. n131; June n132; Nov. n140; Dec. n145
Vanadium Corp. ....Jan. n117; Mar. n113, 115; June. 125

Vancouver Island Base Metals.....Nov. n142
Venezuela:
Cerro Bolivar—U. S. Steel's new iron ore bonanza. N. C. Lake.....Aug. *72
Iron ore.....Apr. *128
Ventilation:
How proximity of operator affects anemometer readings. Boshkov & Amontree. .....May, *100
Vermiculite in Canada.....Nov. n140
Vermont Asbestos:
Asbestos industry strives to meet increasing demand. W. A. Rukeyster. .....May *94
Vicar.....Apr. n139; Oct. n116
Victoria .....Dec. n156
Victoria Gold Dredging .....Dec. n156
Victory Divide.....June, n123
Violamac....May n138; July, n117; Oct. n137
Virginia .....Oct. n114
Virginia Orange Free State Gold....Oct. n149
Vitro Mfg. .....Sept. n114
Vogelstruisbult Gold.....Jan n134
Volcanic glass in Oregon.....Nov. n136
Volta Redona .....June n134

W

Wacontah .....Dec. n134
Waddington .....May n137; Aug. n161
Waite Amulet .....
Feb. n166; May n136; Sept. n133; Oct. n134
Waite Minerals.....Jan. n116
Wanamaker Mining & Milling .....Feb. n153
Wanless .....Nov. n132
War Eagle Gold.....Sept. n115
War Horse .....Oct. n139
Washington Brick & Lime.....
.....May n133; July, n111; Nov. n138
Wauseca .....Feb. n157; Oct. n116
Welding:
Flame-heating equipment repairs damaged cars. .....Sept. *104
Portable trolley pole welded to steel tie. .....June, *94
Reclaiming drill hammer.....Mar. *108
Welkom Gold .....Apr. n155; July, n125
Wellington .....July n91
West Driefontein .....Oct. n150
West Dronfontein Gold.....Feb. n172
West Kentucky Coal Co.
How to make your own roof bolts...Dec. *112
Western .....July, n122
Western Uranium Cobalt.....
Feb. n165; Aug. n161; Oct. n138; Nov. n140
Wheeling Steel.....Mar. n118
Whinnery....Feb. n151; Apr. n131; July, n91
Whippet Consolidated.....Oct. n143
White Horse.....Mar n122
White Knob .....Apr. n138
Whitewater .....Oct. n137
Willow Valley .....July, n91
Wiluna Gold..Jan. n126; Mar. n137; May, n144
Winnemucca Mountain.....Apr. n142
Wollastonite:
A new industrial mineral. R. B. Ladoo. .....Nov. *95

Y

Yale Lead & Zinc.....Oct. n137
Yaney .....Apr. n132
Yankee Girl .....Nov. n129; Dec. n134
Yauricocha .....Sept. n138
Yellow Gold .....Jan. n122
Yellow Pine .....Nov. n130
Young America .....Dec. n145
Yuba Consolidated Gold.....Oct. n112
Yuba Consolidated Gold Fields.....
.....Jan. n108;
Mar. n129; July n91; Aug. n157; Dec. n131
Yugoslavia:
Minerals—stake in a long-term gamble. J. J. Christie. .....Apr. 112
The Trepca Mine's great possibilities. J. J. Christie. .....June 77
Trepca's ore hearth output set record during World War II. J. S. Stewart. .....Oct. *92
What I saw at the Bor Copper mine. J. J. Christie. .....May. *78
Yukon Consolidated Gold....Jan. n107; Apr. n151; June n113; Sept. n136; Dec. n148
Yukon Placer .....May n139

Z

Zeehan .....May, n145
Zeehan Explorations .....Jan. n130
Zinc:
Bunker Hill's flash grind. Frank McKinley. .....Jan. *64
Long-term demand will force metal prices up. W. P. Shea (charts & tables). .....Mar. *81
Low-cost production of zinc dust from oxidized ores. Morgan & Gray...Mar. *72
New Calumet & Hecla lead-zinc mill. Koorts & Walvoord.....July, *78
1949 production and consumption of zinc. C. R. Ince. (tables).....Feb. *87
Pump parts last longer with silicon carbide. J. J. Burns. .....Dec. *94
Sidney mine uses the flash grind, too. .....Jan. *67
Western European production and consumption of zinc. R. L. Wilcox. May, 88
Zinc Mines.....Nov. n145
Zincton .....Mar. n129
Zircon Rutile .....July, n125
Zonolite .....Sept. n126

e editorial; n news; c comment and criticism; * illustrated

INDEX TO AUTHORS

Amontree, Burton & Stefan Boshkov—How proximity of operator affects anemometer readings ....May *100
Angove, Phil & Richard Latliner—Idaho Maryland's powder plan cuts explosives cost by 30% ....June 60
Armstrong, T. N. & J. H. Dewey—Alloy steel churn drill bits prove superior in tough ground ....July *64
Ashman, A. O.—An accurate reagent feeder for small quantities.... Apr. *98

Barr, James A.—Phosphate rock...Feb. 103
Bernhardt, Joseph
Concreting pays for slushing and haulage drifts....Dec. *82
Birgi, S. E.—Ergani, mainstay of Turkey's copper mining ....Apr. *92
Bond, Fred C.—Selecting rods of the proper size for the rod mill....Oct. 85
Calculate classifier data accurately by new method....Dec. *90
Boshkov, Stefan & Burton Amontree—How proximity of operator affects anemometer readings ....May *100
Boyer, W. J.
Handling materials by remote-controlled locomotives....Dec. *92
Bratter, Herbert—World Fund rejects gold price increase....July 76
Britton, S. A.—Heavy-density separation cuts brown ore treatment cost...July *68
Brown, Whitman, E. & J. V. Thompson—The Humphreys spiral....Aug. *87
Burns, J. J.
Pump parts last longer with silicon carbide....Dec. *94

Cairns, Ian F.—How heavy-media separation recovers African diamonds.Sept. *86
Christie, John J.—Inside Yugoslavia—the Trepca Mine's great possibilities ....June 77
Inside Yugoslavia—what I saw at the Bor Copper mine ....May *78
Yugoslavia's minerals—stake in a long-term gamble....Apr. 112
Clark, Jack W.—Arsenic ....Feb. 94
Beryllium ....Feb. 95
Bismuth ....Feb. 94
Cotter, W. E. Jr. & Fred Roleff
Oliver's training program.... Dec. *74
Counselman, T. B.—FluoSolids for roasting ....Mar. *84
Courtney, H. M.—Ladder-making machine cuts costs by 50 percent....May *106
Crago, Arthur—Three new steps in treating Florida phosphate rock....Nov. *78
Craig, J. G.—Modernizing New Jersey Zinc's Eagle Mill, pt. I Oct. *80; pt. 2 ....Nov. *101

Darby, C. W. & W. H. McCormick—Proper care for hollow steel will cut your drilling costs ....June *74
Davila, Jose G.—Tin determination made easy and accurate ....July 81
Davis, E. W.—A report on taconite ..Nov. *84
Davis, Hubert W.—Cobalt ....Feb. 93
Molybdenum ....Feb. 99
Nickel ....Feb. 99
Platinum ....Feb. 95
Tungsten ....Feb. 98
Dewey, J. H. & T. N. Armstrong—Alloy steel churn drill bits prove superior in tough ground ....July *64
Dionne, R. J.—Quemont—designed today for tomorrow's production ....Oct. *74
Downey, F. J.—Hayden reports on a long campaign ....Sept. *82
Durk, R. R. & E. S. McIntyre—Shaft surveying method features accuracy ....Apr. *90
Durrell, W. H.—Labrador iron ore and the St. Lawrence Seaway....May *92

Erickson, Stephen E. & E. C. Herkenhoff—Cyclone separator may be solution for fine iron ore problem....June *71

Fink, Colin G. & H. J. Strauss
New process may make low-grade tin ore profitable....Dec. *96

Gambatese, Joseph M.—Mine, Mill vs. CIO fight means turmoil for mining ....Apr. *73
Gardner, Percy S. Jr.—Hydraulic material lift for hoisting crushed ore..Sept. *84
Gillies, Donald R.—"Adirondack iron ore field still offers many challenges".June *84
Gray, J. D. & H. J. Morgan—Low-cost production of zinc dust from oxidized ores ....Mar. *72
Gustafson, A. A.—13 ways a sulphur producer cut costs and improved handling ....Jan. *68
Gustavson, Samuel A.—Antimony...Feb. 93

Hastings, W. & F. W. Sauerwein—Short-period delays help in enlarging shaft stations ....May *85
Herkenhoff, Earl C. & S. E. Erickson—Cyclone separator may be solution for fine iron ore problem....June *71
Hester, Walter B.—Barite....Feb. 101
Hopper, C. H.—What is best in drilling blast holes?—it appears to depend upon conditions ....Apr. *86
Hubbell, A. H.—Drilling still holds the attention of mine operators....Feb. *108
Huleatt, William P.—Automatic sample preparation saves time, money for USGS ....June *62
Hutti, John B.—How Getchell mine and mill prepare for greater output ..July *60
How Natomas keeps a large dredge operating in the desert ....Oct. *96
Howe Sound's cobalt mine rapidly nearing production ....Oct. *89
Mechanical converter tuyere punching at the McGill smelter....Aug. *84
New 17,000-ton dry-land "dredge" uses draglines, shovel, belts, washing plant ....June *68
Pre-assembled timber sets speed shaft rehabilitation ....Apr. *100

Ince, Charles R.—Zinc ....Feb. *87

Jenkins, Ray W.—Cycle planning for rock headings means more footage per day ....May *72
Johnson, S. W.—Perlite ....Feb. *102
Johnston, M. L.—Pressure and rockburst ....Sept. *91
Just, Evan—Production proration can serve industry and public.... July 56

Kelley, Joseph G.
New survey method ....Dec. *101
Korts, I. V. & O. W. Walvoord—Clean design features new Calumet & Hecla lead-zinc mill ....July *78
Kriz, M. A.—Gold ....Feb. *76
Kunze, Keith—Strong dosage is remedy in gold recovery problem....Jan. *71

Ladoo, Raymond B.—Wollastonite—a new industrial mineral....Nov. *95
Lake, Mack C.—Cerro Bolivar—U. S. Steel's new iron ore bonanza....Aug. *72
Larssen, Ludwig & Erik Wells-Strand
Combination jumbo and slusher speeds incline shaft project....Dec. *87
Lasky, S. G.—How tonnage and grade relations help predict ore reserves.Apr. *81
Latimer, Richard & Phil Angove—Idaho Maryland's powder plan cuts explosives cost by 30%....June 60
Leavens, Dickson H.—Silver ....Feb. *80
Lund, Richard J.—Light metals....Feb. *90
Lundberg, Hans & B. T. Wilson—The airplane dominates in modern exploration methods ....Feb. *106
Lutjen, G. P.—Cobalt camp comes back ....Nov. *86
Jet-piercing hand blowpipe can mean faster drilling at lower cost....July *74
Lutjen, G. P. & Dick Wolters—Indoctrination program pays off....Jan. *58

McCarroll, S. J.
Philippine manganese resources limited ....Dec. *88
McCormick, W. H. & C. W. Darby—Proper care for hollow steel will cut your drilling costs ....June *74
McCullough, C. W.—A mine for your secretary ....May *91
McIntyre, E. S. & R. R. Durk—Shaft surveying method features accuracy..Apr. *90
McKinley, Frank—Bunker Hill's flash grind ....Jan. *64
Marquardt, C. M.—New hoist protective device prevents overwind, overspeed ....Sept. *71
Melcher, Norwood B.—Chromite....Feb. 98
Manganese ....Feb. 97
Mercier, Stanley M.—Build your belt conveyors to make them last longer..Jan. *78
Merrill, Charles White—Ferro-alloy metals ....Feb. 97
Minor metals ....Feb. 93
Meyer, Helena M.—Mercury....Feb. 94
Titanium ....Feb. 96
Moore, R. B.—For smooth operation of the casting wheel ....Mar. *66
Morgan, Harry J. & J. D. Gray—Low-cost production of zinc dust from oxidized ores ....Mar. *72
Mote, Richard H.—Cadmium....Feb. 94

Nixon, N.—Selecting the best size of hole for churn drilling ....Apr. *56
Noon, W. A.—Unique bucketline dredge recovers placer scheelite ....May *82

O'Kelly, William A.—Shaft surveying ....June *102

Pardee, Franklin G.—The Hoskold formula is justified ....Jan. 76
Pierce, Jack—Potash ....Feb. 100

Quigley, James—Primary uranium ore now being mined in Utah....Aug. *90

Robb, A. H.—Veteran tin dredge readied for new task ....Aug. *116
Roleff, Fred & W. E. Cotter, Jr.
Oliver's training program....Dec. *74
Rukeyser, W. A.—Asbestos industry strives to meet increasing demand.May *94
New uses for low-priced fibers vital to Canadian asbestos ....Mar. *76
Rumble, Frank H.—Sag vs. belt length in V-belt drives ....Nov. 94
Short-center V-belt drives cost less to install ....Aug. *104

Sackett, Earl L. H.—Batch-test centrifuge ....Apr. *79
Sauerwein, F. W. & W. Hastings—Short period delays help in enlarging shaft stations ....May *85
Schellinger, A. Kenneth—A better way to assay cyanide mill solutions ....Jan. 74
Schlechten, A. W.—1949 was a year of progress in non-ferrous metallurgy ....Feb. *120
Vacuum metallurgy—a new and growing industry ....July 71
Schmedeman, O. C.—First Caribbean bauxite development ....Nov. *98
Shea, William P.—Long-term demand will force metal prices up....Mar. *81
Shewmon, Daniel—Random transit setup method saves time, eliminates taping ....Aug. *98
Shook, Alfred M.—Blackburn heavy-density plant opens new brown iron ore reserves ....Sept. *78
Stead, Frank W.—Airborne radio activity surveying speeds uranium prospecting ....Sept. *74
Stewart, John S.—Trepca's ore hearth output set record during World War II ....Oct. *92
Stoll, Walter C.—Gold ....June 103
Strauss, Howard J. & C. G. Fink
New process may make low-grade tin ore profitable....Dec. *96

Taylor, Clarion W. & R. D. Wilfley—Perlite mining and processing—a new industry for the West ....June *80
Thompson, James V. & W. E. Brown—The Humphreys spiral ....Aug. *87
Turrentine, J. W.—U. S. reserves of potash estimated on sound basis....Aug. *94

Vaughan, K. A.—How to charge storage batteries with modified constant voltage ....Oct. *102

Walvoord, O. W. & I. V. Korts—Clean design features new Calumet & Hecla lead-zinc mill ....July *78
Wanders, H. H.—Copper ....Feb. *82
Tin ....Feb. *89
Weaver, Lamar
The change house can build morale. ....Dec. *98
Wells-Strand, Erik & Ludwig Larssen
Combination jumbo and slusher speeds incline shaft project....Dec. *87
Wemlinger, Charles A.—Colorado pegmatite deposit yields beryl and mica.Nov. *92
Wilcox, R. L.—Europe will need metals from Western Hemisphere ....May *88
Wilfley, Robert D. & C. W. Taylor—Perlite mining and processing—a new industry for the West ....June *80
Wilson, Basil T. & Hans Lundberg—The airplane dominates in modern exploration methods ....Feb. *106
Wolters, Dick & G. P. Lutjen—Indoctrination program pays off....Jan. *58

Young, R. S.—Test chamber for diamond drilling experiments ....Sept. *95

Ziegfeld, Robert L.—Lead....Feb. *84

e editorial; n news; c comment and criticism; * illustrated